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**LOWER EXTREMITIES**

Name: Paul Aiken

Date: 12/21/12

Age: 53

Ref. M.D.: Shepard

**MOTOR NERVES CONDUCTION STUDIES:**

NERVE	DISTAL LATENCY msec (mV)/cm	PROXIMAL LATENCY msec (mV)/cm	VELOCITY m/sec
R. Common Peroneal	4.6(8)	12.6(6)/40	50
R. Posterior Tibial	5.4(6)	16.0(4)/48	45
L. Common Peroneal	4.4(6)	12.0(6)/40	52
L. Posterior Tibial	5.6(8)	16.6(6)/48	43

**SENSORY NERVE CONDUCTION STUDIES:**

NERVE	LATENCY MILLISECONDS	AMPLITUDE MICROVOLTS
R. Sup. Peroneal	3.2	8
R. Sural	3.0	6
L. Sup Peroneal	3.4	4
L. Sural	3.0	8

**"F" WAVES:**

	LATENCY MILLISECONDS	
	Right	Left
Peroneal	48.8	49.1
Tibial	54.1	53.1

**"H" REFLEXES:**

Post. Tibial	32.1	32.8
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**IMPRESSION:**

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- Normal sensory latencies and normal amplitudes of the responses in all nerves tested.
- Normal distal motor latencies and normal amplitude of the responses in all nerves tested.
- Normal nerve conduction velocities in all nerves tested.
- Normal "F" waves and "H" reflexes.

## ELECTROMYOGRAM OF LOWER EXTREMITIES

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MUSCLES TESTED:	Insertional Activity			Muscle at Rest					Muscle at Contraction				
	N	IA	DA	N	F	psw	FS	O	N	P	SU	GU	O
<b>Right and Left</b>													
Extensor Dig. Brevis	X					x				x			
Extensor Hallucis Longus	X			X					X				
Flexor Digitorum Longus	X			X					X				
Medial Gastrocnemius	X			X						x			
Tibialis Anterior	X					x				x			
Quadriceps	X			X					X				
Vastus Lateralis	x			x					X				

**Positive sharp waves and polyphasic units in both EDB's and both anterior tibialis.**

**Polyphasic units in both medial gastrocnemius.**

**Paraspinal muscles were not done because the patient is status post lumbar laminectomy.**

### **CONCLUSION:**

**Chronic denervation from bilateral S1 radiculopathy**

**Acute and chronic denervation from bilateral L4-5 radiculopathy.**

**Ramon Valderrama, M.D.**